

AKT3 Sequence Listings.ST25  
SEQUENCE LISTING

<110> Syrrx, Inc.  
<120> CRYSTALLIZATION OF AKT3  
<130> SYR-AKT3-5001-C1  
<140> Not Yet Assigned  
<141> 2003-06-20  
<150> 60/400,207  
<151> 2002-07-31  
<160> 3  
<170> PatentIn version 3.1  
<210> 1  
<211> 479  
<212> PRT  
<213> Homo sapiens  
<220>  
<221> Amino acid sequence for full length human wild type AKT3  
<222> (1)..(461)  
<223>  
  
<220>  
<221> Amino acid sequence for full length human wild type AKT3  
<222> (1)..(461)  
<223> SEQ ID NO: 1 encodes for residues 136-461  
  
<300>  
<308> Genbank/NP\_005456  
<309> 2002-04-04  
<313> (1)..(461)  
  
<400> 1  
  
Met Ser Asp Val Thr Ile Val Lys Glu Gly Trp Val Gln Lys Arg Gly  
1               5               10               15  
  
Glu Tyr Ile Lys Asn Trp Arg Pro Arg Tyr Phe Leu Leu Lys Thr Asp  
20               25               30  
  
Gly Ser Phe Ile Gly Tyr Lys Glu Lys Pro Gln Asp Val Asp Leu Pro  
35               40               45  
  
Tyr Pro Leu Asn Asn Phe Ser Val Ala Lys Cys Gln Leu Met Lys Thr  
50               55               60  
  
Glu Arg Pro Lys Pro Asn Thr Phe Ile Ile Arg Cys Leu Gln Trp Thr  
65               70               75               80  
  
Thr Val Ile Glu Arg Thr Phe His Val Asp Thr Pro Glu Glu Arg Glu  
85               90               95

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Glu Trp Thr Glu Ala Ile Gln Ala Val Ala Asp Arg Leu Gln Arg Gln  
100 105 110

Glu Glu Glu Arg Met Asn Cys Ser Pro Thr Ser Gln Ile Asp Asn Ile  
115 120 125

Gly Glu Glu Glu Met Asp Ala Ser Thr Thr His His Lys Arg Lys Thr  
130 135 140

Met Asn Asp Phe Asp Tyr Leu Lys Leu Leu Gly Lys Gly Thr Phe Gly  
145 150 155 160

Lys Val Ile Leu Val Arg Glu Lys Ala Ser Gly Lys Tyr Tyr Ala Met  
165 170 175

Lys Ile Leu Lys Lys Glu Val Ile Ile Ala Lys Asp Glu Val Ala His  
180 185 190

Thr Leu Thr Glu Ser Arg Val Leu Lys Asn Thr Arg His Pro Phe Leu  
195 200 205

Thr Ser Leu Lys Tyr Ser Phe Gln Thr Lys Asp Arg Leu Cys Phe Val  
210 215 220

Met Glu Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Ser Arg Glu  
225 230 235 240

Arg Val Phe Ser Glu Asp Arg Thr Arg Phe Tyr Gly Ala Glu Ile Val  
245 250 255

Ser Ala Leu Asp Tyr Leu His Ser Gly Lys Ile Val Tyr Arg Asp Leu  
260 265 270

Lys Leu Glu Asn Leu Met Leu Asp Lys Asp Gly His Ile Lys Ile Thr  
275 280 285

Asp Phe Gly Leu Cys Lys Glu Gly Ile Thr Asp Ala Ala Thr Met Lys  
290 295 300

Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Glu Asp  
305 310 315 320

Asn Asp Tyr Gly Arg Ala Val Asp Trp Trp Gly Leu Gly Val Val Met  
325 330 335

Tyr Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Glu  
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Lys Leu Phe Glu Leu Ile Leu Met Glu Asp Ile Lys Phe Pro Arg Thr  
 355 360 365

Leu Ser Ser Asp Ala Lys Ser Leu Leu Ser Gly Leu Leu Ile Lys Asp  
 370 375 380

Pro Asn Lys Arg Leu Gly Gly Gly Pro Asp Asp Ala Lys Glu Ile Met  
 385 390 395 400

Arg His Ser Phe Phe Ser Gly Val Asn Trp Gln Asp Val Tyr Asp Lys  
 405 410 415

Lys Leu Val Pro Pro Phe Lys Pro Gln Val Thr Ser Glu Thr Asp Thr  
 420 425 430

Arg Tyr Phe Asp Glu Glu Phe Thr Ala Gln Thr Ile Thr Ile Thr Pro  
 435 440 445

Pro Glu Lys Tyr Asp Glu Asp Gly Met Asp Cys Met Asp Asn Glu Arg  
 450 455 460

Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Gly Arg Glu  
 465 470 475

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<210> 2
<211> 978
<212> DNA
<213> Homo sapiens

<220>
<221> Human cDNA sequence encoding residues 136-461 of AKT3
<222> (1)..(978)
<223>

<400> 2
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aaaggcactt ttggaaagt tattttggtt cgagagaagg caagtggaaa atactatgt 120
atgaagattc tgaagaaaga agtcattatt gcaaaggatg aagtggcaca cactctaact 180
gaaaggcagag tattaaagaa cactagacat cccttttaa catccttgaa atattccctc 240
cagacaaaag accgtttgtg ttttgtgatg gaatatgtta atggggcgaa gctgttttc 300
catttgtcga gagagcgggt gttctctgag gaccgcacac gtttctatgg tgcagaaatt 360
gtctctgcct tggactatct acattccgga aagattgtgt accgtgatct caagttggag 420
aatctaatgc tggacaaaga tggccacata aaaattacag attttggact ttgcaaagaa 480
gggatcacag atgcagccac catgaagaca ttctgtggca ctccagaata tctggcacca 540
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|   |     |
|---|-----|
| gagggttag aagataatga ctatggccga gcagtagact ggtgggcct aggggttgc    | 600 |
| atgtatgaaa tgatgtgtgg gaggttacct ttctacaacc aggaccatga gaaactttt  | 660 |
| gaattaatat taatggaaga cattaaattt cctcgaacac tctcttcaga tgcaaaatca | 720 |
| ttgccttcag ggctcttgat aaaggatcca aataaacgcc ttggtgagg accagatgt   | 780 |
| gcaaaaagaaa ttatgagaca cagtttcttc tctggagtaa actggcaaga tgtatatgt | 840 |
| aaaaagcttg tacctcctt taaacctcaa gtaacatctg agacagatac tagatattt   | 900 |
| gatgaagaat ttacagctca gactattaca ataacaccac ctgaaaaata tcatgaggat | 960 |
| ggtagtgact gcatggac   | 978 |

<210> 3  
<211> 556  
<212> PRT  
<213> Homo sapiens

<220>  
<221> Amino Acid Sequence for residues 136-461  
<222> (1)..(556)  
<223>

<220>  
<221> Amino Acid Sequence for residues 136-461  
<222> (1)..(556)  
<223> Cleavable intein tag and cleavage site (residues 1-226). Residues 227-230 (CRSL) is left on N-terminal post cleavage

<400> 3

Met Lys Ile Glu Glu Gly Lys Leu Thr Asn Pro Gly Val Ser Ala Trp  
1 5 10 15

Gln Val Asn Thr Ala Tyr Thr Ala Gly Gln Leu Val Thr Tyr Asn Gly  
20 25 30

Lys Thr Tyr Lys Cys Leu Gln Pro His Thr Ser Leu Ala Gly Trp Glu  
35 40 45

Pro Ser Asn Val Pro Ala Leu Trp Gln Leu Gln Asn Asn Gly Asn Asn  
50 55 60

Gly Leu Glu Leu Arg Glu Ser Gly Ala Ile Ser Gly Asp Ser Leu Ile  
65 70 75 80

Ser Leu Ala Ser Thr Gly Lys Arg Val Ser Ile Lys Asp Leu Leu Asp  
85 90 95

Glu Lys Asp Phe Glu Ile Trp Ala Ile Asn Glu Gln Thr Met Lys Leu  
100 105 110

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Glu Ser Ala Lys Val Ser Arg Val Phe Cys Thr Gly Lys Lys Leu Val  
115 120 125

Tyr Ile Leu Lys Thr Arg Leu Gly Arg Thr Ile Lys Ala Thr Ala Asn  
130 135 140

His Arg Phe Leu Thr Ile Asp Gly Trp Lys Arg Leu Asp Glu Leu Ser  
145 150 155 160

Leu Lys Glu His Ile Ala Leu Pro Arg Lys Leu Glu Ser Ser Ser Leu  
165 170 175

Gln Leu Ser Pro Glu Ile Glu Lys Leu Ser Gln Ser Asp Ile Tyr Trp  
180 185 190

Asp Ser Ile Val Ser Ile Thr Glu Thr Gly Val Glu Glu Val Phe Asp  
195 200 205

Leu Thr Val Pro Gly Pro His Asn Phe Val Ala Asn Asp Ile Ile Val  
210 215 220

His Asn Cys Arg Ser Leu Ser Thr Thr His His Lys Arg Lys Thr Met  
225 230 235 240

Asn Asp Phe Asp Tyr Leu Lys Leu Leu Gly Lys Gly Thr Phe Gly Lys  
245 250 255

Val Ile Leu Val Arg Glu Lys Ala Ser Gly Lys Tyr Tyr Ala Met Lys  
260 265 270

Ile Leu Lys Lys Glu Val Ile Ile Ala Lys Asp Glu Val Ala His Thr  
275 280 285

Leu Thr Glu Ser Arg Val Leu Lys Asn Thr Arg His Pro Phe Leu Thr  
290 295 300

Ser Leu Lys Tyr Ser Phe Gln Thr Lys Asp Arg Leu Cys Phe Val Met  
305 310 315 320

Glu Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Ser Arg Glu Arg  
325 330 335

Val Phe Ser Glu Asp Arg Thr Arg Phe Tyr Gly Ala Glu Ile Val Ser  
340 345 350

Ala Leu Asp Tyr Leu His Ser Gly Lys Ile Val Tyr Arg Asp Leu Lys  
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AKT3 Sequence Listings.ST25  
360                   365

Leu Glu Asn Leu Met Leu Asp Lys Asp Gly His Ile Lys Ile Thr Asp  
370                   375                   380

Phe Gly Leu Cys Lys Glu Gly Ile Thr Asp Ala Ala Thr Met Lys Thr  
385                   390                   395                   400

Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Glu Asp Asn  
405                   410                   415

Asp Tyr Gly Arg Ala Val Asp Trp Trp Gly Leu Gly Val Val Met Tyr  
420                   425                   430

Glu Met Met Cys Gly Arg Leu Pro Phe Tyr Asn Gln Asp His Glu Lys  
435                   440                   445

Leu Phe Glu Leu Ile Leu Met Glu Asp Ile Lys Phe Pro Arg Thr Leu  
450                   455                   460

Ser Ser Asp Ala Lys Ser Leu Leu Ser Gly Leu Leu Ile Lys Asp Pro  
465                   470                   475                   480

Asn Lys Arg Leu Gly Gly Pro Asp Asp Ala Lys Glu Ile Met Arg  
485                   490                   495

His Ser Phe Phe Ser Gly Val Asn Trp Gln Asp Val Tyr Asp Lys Lys  
500                   505                   510

Leu Val Pro Pro Phe Lys Pro Gln Val Thr Ser Glu Thr Asp Thr Arg  
515                   520                   525

Tyr Phe Asp Glu Glu Phe Thr Ala Gln Thr Ile Thr Ile Thr Pro Pro  
530                   535                   540

Glu Lys Tyr Asp Glu Asp Gly Met Asp Cys Met Asp  
545                   550                   555